

Energy Systems Integration Facility Workshop



National Renewable Energy Laboratory

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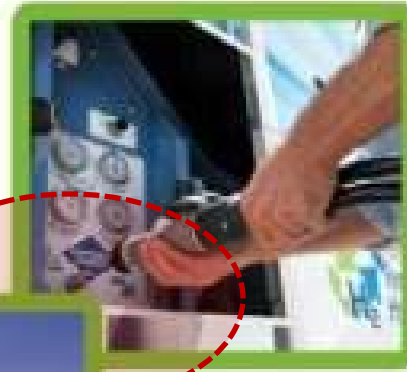
October 27 – 28, 2011

Energy Systems Integration

**Built
Environment**



**Fuel
Production**



**Electricity
Generation**



Transportation

ESIF Purpose



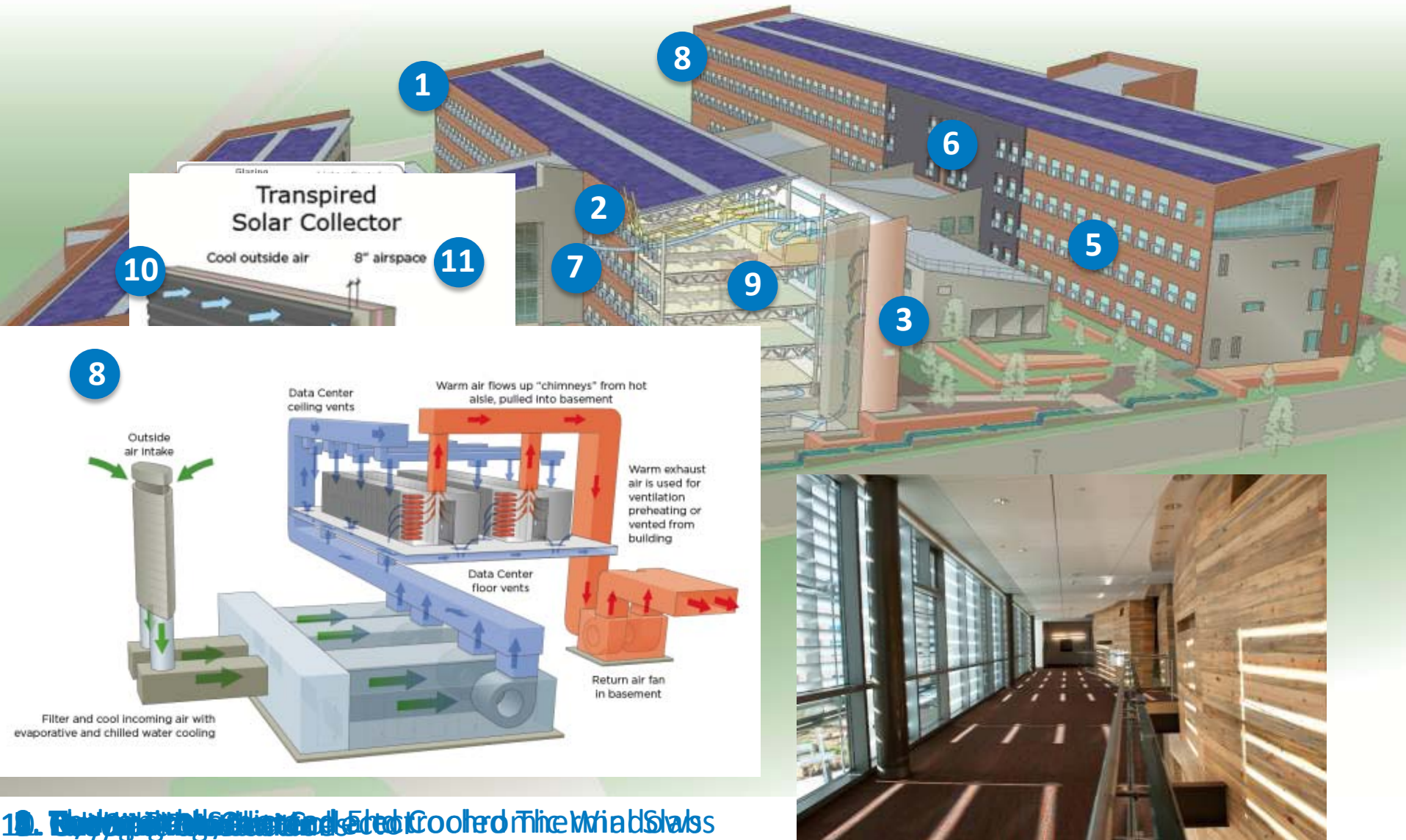
- Devoted to Energy Systems Integration R&D
- Link MW-scale testing with simulation and visualization environment

ESIF Snapshot



- Investment of \$135M
- Largest research building at NREL - 182,500 sqft and 200 people
- High performance computer: 0.5 petaflop scale -> 1 petaflop

The Path to Net Zero Energy



10. The building's solar collector cools the building's